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REMARKS

In response to various paragraphs of the Office Action, applicants offer the following remarks.

Claim Objections:

Claims 23-39 have been objected-to as being in improper dependent form. Applicants have now rewritten claim 23 (originally a multiply dependent claim) in independent form, including the features of claim 1.

Newly added claim 43 includes the features of claim 23 and the features of rewritten claim 6 (claim 6 is rewritten to include the features of claims 1).

Section 112 Rejections:

Claims 7, 10, 21, 25 and 26 have been amended to correct the alternative form objected-to by the Office Action.

Claim 13 has been amended to correct the indefiniteness objected-to by the Office Action.

Section 102 Rejections:

Claims 1-3 have been rejected as being anticipated by Csongor. Applicants have now cancelled claims 1-3.

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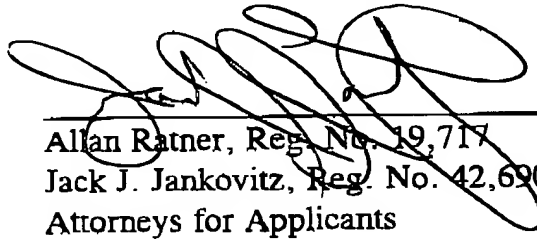
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Double Patenting Rejection:

Claims 1-39 have been provisionally rejected under the doctrine of double patenting over claims 1-22 of co-pending Application No. 09/975,517.

The undersigned notes that he does not know what the claims in Application No. 09/975,517 will be like when finally allowed, as these claims are being handled by another firm. As a result, the undersigned cannot address the double patenting issue now. The undersigned understands the issue of double patenting and will address them later at the appropriate time.

Respectfully Submitted,



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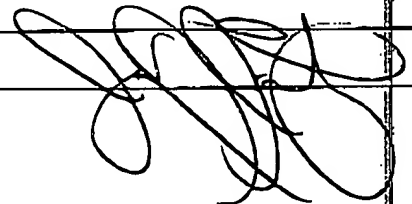
Enclosures: Version with markings to show changes made

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VERSION WITH MARKINGS TO SHOW CHANGES MADE**IN THE CLAIMS:**

1 4. (Amended) An antenna comprising:

2 a conductive bottom member;

3 a conductive side member; and

4 a conductive member arranged in a space surrounded by the bottom
5 member and the side member,

6 wherein the conductive member is connected to a signal line for
7 transmission and/or reception, and

8 [The antenna according to claim 1 or 3, wherein] the conductive
9 member and the bottom member are connected to each other in a place other
10 than the signal line or the feeding point.

1 5. (Amended) An antenna comprising:

2 a conductive bottom member;

3 a conductive side member; and

4 a conductive member arranged in a space surrounded by the bottom
5 member and the side member,

6 wherein the conductive member is connected to a signal line for
7 transmission and/or reception, and

8 [The antenna according to claim 1, wherein] the conductive
9 member and the side member are connected to each other.

1 6. (Amended) An antenna comprising:

2 a conductive bottom member;

3 a conductive side member; and

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4 a conductive member arranged in a space surrounded by the bottom
5 member and the side member,

6 wherein the conductive member is connected to a signal line for
7 transmission and/or reception; and

8 [The antenna according to claim 1, further comprising:]

9 a conductive ceiling member covering all or part of the space.

1 7. (Amended) The antenna according to claim 6, wherein the
2 conductive member and the ceiling member are connected to each other
3 electrically [and/or mechanically].

1 10. (Amended) An antenna comprising:

2 a conductive bottom member;

3 a conductive side member; and

4 a conductive member arranged in a space surrounded by the bottom
5 member and the side member,

6 wherein the conductive member is connected to a signal line for
7 transmission and/or reception, and

8 [The antenna according to claim 1, wherein] at least one of the
9 bottom member and[/or] the side member have openings.

1 13. (Amended) The antenna according to claim 11, wherein[, if
2 it is assumed that] a projection of the conductive member onto the bottom
3 member is an origin point and the bottom member is arranged in an X-Y plane,
4 the bottom member and the side member are symmetric with respect to a Z-Y
5 plane, and the openings are symmetrically arranged with respect to a Z-Y plane.

1 15. (Amended) An antenna comprising:

2 a conductive bottom member;

3 a conductive side member; and

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4 a conductive member arranged in a space surrounded by the bottom
5 member and the side member,

6 wherein the conductive member is connected to a signal line for
7 transmission and/or reception; and

8 [The antenna according to claim 1 or 6, comprising] a dielectric
9 member that has a permittivity higher than air [and] is provided in the space.

1 19. (Amended) An antenna comprising:

2 a conductive bottom member;

3 a conductive side member; and

4 a conductive member arranged in a space surrounded by the bottom
5 member and the side member,

6 wherein the conductive member is connected to a signal line for
7 transmission and/or reception; and

8 [The antenna according to claim 1 or 6, further comprising] at least
9 one matching element [which] is arranged apart by a predetermined distance
10 from the conductive member, wherein the matching element and the bottom
11 member are connected to each other electrically.

1 21. (Amended) The antenna according to claim 19, wherein at
2 least one of the matching elements is electrically connected to at least one of the
3 ceiling member and[/or] the side member.

1 22. (Amended) An arrangement method of antennas [that is an
2 arrangement method of the antennas according to claim 1,] , each antenna
3 including a conductive bottom member, a conductive side member, and a
4 conductive member arranged in a space surrounded by the bottom member and
5 the side member, wherein the conductive member is connected to a signal line
6 for transmission and/or reception,

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7 the method comprising a step of aligning and arranging the plural
8 antennas in a manner to [conform] produce a direction for minimizing directivity
9 of each of the antennas on a horizontal plane.

1 23. (Amended) An antenna comprising:

2 a conductive bottom member;

3 a conductive side member; and

4 a conductive member arranged in a space surrounded by the bottom
5 member and the side member,

6 wherein the conductive member is connected to a signal line for
7 transmission and/or reception; and

8 [An antenna device comprising:]

9 [The antenna according to claim 1 or 6; and all or part of] a circuit
10 for transmission and/or reception [which is] connected to the signal line [while
11 being] and arranged in the space.

1 25. (Amended) The antenna device according to claim 24,
2 wherein the shielding member is formed as a concave portion that is [each] part
3 of at least one of the bottom member and[/or] the side member; and

4 [wherein] all or part of the circuit is arranged in the concave
5 portion.

1 26. (Amended) The antenna device according to claim 25,
2 further comprising a lid member which covers the concave portion and stores all
3 or part of the circuit, wherein the lid member is electrically connected to at least
4 one of the bottom member and[/or] the side member.

Newly added claims 40-43 have been added.

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